

WHAT IS CLAIMED IS:

1. A pavement system, comprising:

a plurality of distributor plates overlying support soil, the distributor plates each having reinforced concrete elements configured to transfer vehicular or static loads to the support soil.

2. The pavement system of claim 1 further comprising a stiffener framework cooperating with the distributor plates.

3. The pavement system of claim 2 wherein the stiffener framework comprises longitudinal and cross elements.

4. A pavement system, comprising:

a reinforced concrete diaphragm overlying natural terrain or layers of non-native materials without separation joints and spacing intervals.

5. The pavement system of claim 4 wherein the reinforced concrete diaphragm comprises stiffening elements either engaged or overhanging from faces of the reinforced concrete diaphragm.

6. The pavement system of claim 4 wherein the reinforced concrete diaphragm overlies the natural terrain or layers of non-native materials without granular bases and sub-bases as support material.

7. The pavement system of claim 4 reinforced concrete diaphragm is monolithic over a length of at least one hundred meters, the reinforced concrete diaphragm being constructed without expansion joints, contraction joints and structural joints.

8. The pavement system of claim 4 wherein the reinforced concrete diaphragm comprises a traffic surface and elements of reinforced concrete in

directions parallel, perpendicular or diagonal to the axis of the structure, located above or under the traffic surface and level with the traffic surface.

9. The pavement system of claim 4 comprising a plurality of poured concrete diaphragms, solid or relieved, reinforced with steel rods arranged in longitudinal, cross or diagonal directions with respect to the axis of the structure.

10. The pavement system of claim 4 further comprising road elements structurally integrated with the reinforced concrete diaphragm.

11. The pavement system of claim 11 wherein the road elements comprises curbs, ditches, berms ditches, canals or spillways.